

Universal Electronic Calorimeter, by Ye. V.
Andryevtsev, K. N. Chakalev, 2 pp.

RUSSIAN, per, Inzhenerno Fiz Zhur, Vol III, No 1,
1960, pp 3-7. 9058294

AEC Tr-4934

Sci - Engr
Apr 62

189,964

Certain Problems Related to the Strength of Silicone
Carbide Base Cermet Materials, by V.T. Troshchenko.

RUSSIAN, per, Inzh Fiz Zhur, No 1, 1960, pp 103-107.
CIA 9660846.

ATIC MCL 640

UKAEA

Sci - Min/Met; Chem

Ric. op. DES Conf. 200

May 60

969 7019

176 (CA)

T60-17104 Ref DC-12

152,577

(NY-6880)

BOOK REVIEW OF SEMICONDUCTOR THERMISTORS,
BY I. F. VOLOSHIN, A. S. KASPEROVICH,
A. G. SHASHKOV, BY B. S. SOTSKOV, 6 PP.

RUSSIAN, PER, INZHIFIZ ZHUR, VOL III,
NO 1, 1960, PP 124-126.

JPRS 12510

SCI - ENGR
MAR 62

183,,182

Methodology for Experimental Studies of the
Overall Kinetics of the Combustion of Gases, by
Z. S. Leont'yeva,

RUSSIAN, per, Inzhenerno-Fiz Zhur, Vol III, No 2,
1960, pp 12-16.

JHU/APL

available at---ERDL, Ft. Belvoir
T-1386

Sci - Phys
Aug 61.

163578

62-14002

Rips, S. M.

A THERMODYNAMIC INVESTIGATION OF THE
PROCESS OF GASIFICATION OF LIQUID OXYGEN
(Termodinamicheskoe issledovanie Protsessa Gazifi-
katsii Zhidkogo Kisloroda). [1962] [17]p. (foreign text
included) 1 ref.

Order from CTS or SLA \$1.60

62-14002

Trans. of Inzhenerno-Fizicheskii Zhurnal (USSR) 1960
[v. 3] no. 2, p. 41-45.

DESCRIPTORS: Thermodynamics, *Liquefied gases,
*Oxygen, Equations of state.

By solving the problem for the maximum, it is possi-
ble to determine a permissible value of the "specific
charge" of liquid oxygen, required to prevent re-
verse condensation, and to establish the physical
significance of the accompanying "crisis". (Author)
(Physics--Thermodynamics, TT, v. 8, no. 8)

I. Rips, S. M.

Office of Technical Services

The Sintering of Iron With Cyclic Change of
Temperature in a ~~HEHN~~ Critical Range, by
R.A. Andriyevskiy, et al.

RUSSIAN, per, Inzh Fiz Zhur, Vol. III, No 2, 1960
PP 71-73. CIA 9660739.

ATIC MCL 675

Sci - Phys

SLA 61-12706

May 61

152,576

Holograms for the Determination of the
Optical Constants of Absorbing Substances
by Avery's Method, by A. P. Prishivalko.

RUSSIAN, per, Inzhenerno-Fizicheskiy Zhur,
Vol III, No 2, 1960, pp 83-85.

Dept of Interior
QE3 E57 No 71

191, 494

Sci - Geophys

Apr 62

Causes of Dielectric Losses in Transformer Oil
at a Frequency of 50 c/s, by R. A. Lipstein &
E. N. Stern.
RUSSIAN, per, Inzh fiz zh, Vol 2, 1960, pp 101-104.
NII Ref: 5328.4F (12239)

Sci/Elec & Elec Engr
Feb 68

349,594

Bondareva, A. K. and Todes, O. M.
HEAT CONDUCTION AND HEAT EXCHANGE IN A
FLUIDIZED BED (Teploprovodnost' i Teploobmen v
Kipyashchem Sloe) tr. by M. Slade. [1961] [14]p.
(foreign text included) 8 refs. [CSIRO] Trans. no. 5507.
Order from OTS or SLA \$1.60 62-13608

Trans. of Inzhenerno-Fizicheskii Zhurnal (USSR) 1960,
v. 3, no. 2, p. 105-110.

DESCRIPTORS: *Fluidized solids, *Heat transfer,
Thermal conductivity, Liquids, Turbulent flow, Parti-
cles, Motion.

Visual observations and direct and indirect determi-
nations of the particle velocities show that the move-
ment of the particles in a fluidized bed is analogous to
the movement in a highly turbulent liquid.

(Physics--Thermodynamics, TT, v. 7, no. 10)

62-13608

- I. Bondareva, A. K.
- II. Todes, O. M.
- III. CSIRO Trans-5507
- IV. Commonwealth Scientific
and Industrial Research
Organization (Australia)

Office of Technical Services

The Problem of Heat Exchange in a Fluidized
Bed, by S. Zabrodskiy.

RUSSIAN, per, Inzhenerno-Fiz Zhur,
Vol. III, No 2, 1960, pp 111-114.

CSIRO 5582

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Sci - Phys
Aug 62

207,346

(DC-3625).

The Application of Powerful Sources of Radiation
in Industry, by G. I. Gritsflov, V. I. Sinitov, 6 pp.

RUSSIAN, per, Inzhenerno-Fiz Zhur, Vol III, No 2,
Minsk, 1960, pp 128-132.

JPRS 3339

Sci - Chem, Chemical Industry
Jun 60

117,538

High-Temperature Reduction of Carbon Dioxide
by Carbon, by E. S. Golovina and
G. P. Khamstovich,
RUSSIAN, per, Inzhenerno-Fizicheskiy Zhurnal,
Vol III, No 3, 1960, pp 13-20.
MIL RTS 2890
(On Loan or Purchase)

Sci-Chem
Apr 67

324,445

Calculation of the Optical Properties of
a Stack of Plane-parallel Layers,
by A. P. Khapalyuk.
USSR, per, Inzhen Fiz Zhur, Vol III, No 3,
1960, pp 59-68.
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Sci - Eng
Nov 65

292,775

Keneman, P. Ye., Zalogin, N. G. and others.
THE MECHANISM OF THE FREE FLOW OF
GRANULAR MATERIALS, 1 (I. O Mekhanizme
Svobodnogo Istocheniya Sypuchikh Tel). Jan 61 [7]p.
21 refs. RTS 1652.
Order from LC or SLA m\$1.80, ph\$1.80 61-15713

Trans. of Inzhenerno-Fizicheskiy Zhurnal (USSR)
1960, v. 3, no. 3, p. 69-73.

The unrestricted passage of free flowing materials
through orifices is investigated. It is established
that the flow-rate is determined by the ability of a
"dynamic arch" to be formed over the orifice and
does not depend either on the height of the column of
the free flowing material over the orifice (if it ex-
ceeds the diameter of the orifice), or on the charac-
ter and velocity of the movement of the particles out-
side the limits of the dynamic arch zone which
extends over the orifice by a height approximating to
the width of the diameter. (Authors)
(Mechanics, TT, v. 3, no. 9)

61-15713

I. Particles--Mechanical
properties

I. Keneman, P. Ye.

II. Zalogin, N. G.

III. RTS-1652

IV. Department of Scientific and
Industrial Research
(Gr. Brit.)

151970

Office of Technical Services

ON TURBULENT DIFFUSION IN PIPES, BY
V. S. YABLONSKIY, ET AL.

RUSSIAN, PER, INZHENERNO, FIZ ZHUR, VOL 111,
NO 3, 1960, PP 117-122

NLL M.4627

DTIC NO-7771

SCI - PHYS

JUN 62

199,091

(SF-2155)

Fedor ~~PAKHOTI~~ Petrovich Vinokurov, 4 pp.

RUSSIAN, per, Inzherno-Fiz Zhur., No 3,
1960, pp 155-158.

JPRS 13435

USSR
Biog
Apr 62

Zalogin, N. G., Keneman, R. Ye., and
Vorob'yev, V. N.

REGARDING THE MECHANISM OF FREE FLOW
OF NON-AGGLOMERATING SOLIDS. Feb 61 [7]p.
7 refs. RTS 1653.

Order from LC or SLA m\$1.80, ph\$1.80 61-15923

Trans. of Inzhenerno-Fizicheskii Zhurnal (USSR)
1960, v. 3, no. 4, p. 18-22.

As a result of investigations into the relationship between the rate of flow of solid particles out of funnels and the angle of inclination of funnel walls to the horizontal, it was found that only the inclination of the part of the wall close to the outlet orifice affects the rate of flow. It was established that the flow from a funnel becomes greater than that from a flat-bottomed bin when the inclination of the funnel wall exceeds 55-60°. The walls of a cylindrical bin influence the rate of flow if their distance from the edge of orifice is less than the diameter of the orifice. (Authors) (See also 61-15713)

61-15923

I. Particles--Mechanical
properties

I. Zalogin, N. G.

II. Keneman, R. Ye.

III. Vorob'yev, V. N.

IV. RTS-1653

V. Department of Scientific and
Industrial Research
(Gr. Brit.)

151990

Office of Technical Services

(Mechanics, TT, v. 5, no. 9)

61-15397

Toporov, Yu. P.
ON THE QUESTION OF THE INFLUENCE EX-
ERTED BY HUMIDITY ON THE EXTERNAL FRIC-
TION OF SOLIDS (K Voprosu o Vliyani Vlazhnosti na
Vneshneye Treniye Tverdykh Tel). Jan 61 [9]p.
19 refs. RTS 1654.
Order from LC or SLA m\$1.80, ph\$1.80 61-15397

Trans. of Inzhenerno-Fizicheskii Zhurnal (USSR)
1960, v. 3, no. 4, p. 44-48.

A description is given of the technique and the results
of an investigation into the influence exerted by the
humidity of the surrounding atmosphere on external
static friction when there is a layer of highly disperse
substances between the contact surfaces. (Author)

(Mechanics, TT, v. 5, no. 7)

1. Solids--Surface properties
2. Solids--Moisture factors
3. Friction--Moisture factors
- I. Toporov, Yu. P.
- II. RTS-1654
- III. Department of Scientific
and Industrial Research
(Gr. Brit.)

148,751

Office of Technical Services

(NY-5938)

Semiempirical Theory of Vertical Turbulent
Diffusion in the Boundary Layer of the
Atmosphere, by I. 'L. Karol', 24 pp.

RUSSIAN, per, Inzh-Fiz Zhur, Vol III, No 4, 1960,
pp 54-64.

JPRS 9085

Sci - Geophys

150,995

May 61

Heat Exchange by Radiation Between Two Parallel ∞
Infinite Cylinders, by V. Y. Frendel.

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pp 65-69.

UNTEA-Risley-Tr-~~7~~ 544

Sci
Dec 63

Allimov, R. Z.

HEAT AND MASS EXCHANGE WITH COOLING OF
STRONGLY HEATED SURFACES BY EVAPORATION
(Teplo- i Massobmen pri Okhlazhdenni Sil'no Nagre-
vaemykh Poverkhnostei is Pareniem) tr. by Joy B.
Gazley. Nov 62 [21]p. 16 refs. Rand Memo.
RM-2997-PR.

Order from OTS or SLA \$2.60

63-13622

Trans. of ~~Inzhenerno-Fizicheskii Zhurnal~~ (USSR) 1960,
v. 3, no. 5, p. 31-39.

DESCRIPTORS: *Heat transfer, *Mass transfer, Sur-
faces, Cooling, Evaporation, Thermal conductivity,
Thermal diffusion, *Fluid flow, Fluid dynamics.

In this article criteria equations of heat and mass
transfer are deduced, which take into account the inter-
effect of the flows of heat and steam across the bound-
(Mechanics--Aerodynamics, TT, v. 9, no. 6) (over)

63-13622

- I. Allimov, R. Z.
- II. Rand RM-2997-PR
- III. Rand Corp., Santa Monica,
Calif.
- IV. Cont. of AF 49(638)700

Office of Technical Services

Heat Exchange With a Flow of a Rarefied Gas Along
a Wall,

RUSSIAN, per, Inzh-Fiz Zhur, Vol III, No 5,
1960, pp 4-11.

Rand Corporation
RAND RM-3016-PR

Sci - Phys
Oct 62

212,286

Experimental Investigation of the Effectiveness
of Ribbing of Streamlined Form for GTU Generators,
by A. I. Rimovich, 10 pp.

RUSSIAN, per, ~~Inzhenerno-Fiz Zhur~~, Vol III,
No 5, 1960, pp 24-30. 9670180

~~ATSC~~ MIL-908/1

Sci - Ingr

Jul 61

161,339

Heat and Mass Exchange, by R. E. Alimov.

RUSSIAN, per, Inzh-Fiz Zhur, Vol III, No 5, 1960,
pp 31-39.

Rand Corporation
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Sol - Phys

Oct 62

212,037

212, 567

On the Problem of Heat Exchange During Liquid
Boiling in Tubes, by I. P. Vishnev, N. K.
Elukhin, 7 pp.

RUSSIAN, per, Inzhener Fiz Zhur, Vol III, No 5,
1960, pp 74-80. 7080653

AEC UCRL-Trans - 677

167,839

Sci
Sep 61

On the Effect of Pulsations of Flow Rate on the
Rate of Evaporation of Droplets of Fuel, by A. B.
Lipshits.

RUSSIAN, part, Inzhenero-Fiz. Zhurn., Vol. 11, No. 1,
1960, pp. 119-123.

INT. M. 2736

DTIC 61-47354-1
180, 055

Sci - Phys

Jan 62

Temperature Field in a Finite Cylinder with
Internal Sources, by T. L. Fereiman, 7 pp.

RUSSIAN, per, Inzhenerno-Fizicheskiy Zhurnal,
Vol III, No 5, 1960, pp 138-144. 9670225

171
~~171~~ MCL-862/1

Sci - Phys

Jul 61

161,361

Heat losses During the Delivery of Liquids With
the Aid of Hot Gases, by N. Ye. Kvantaliani,
5 pp.

RUSSIAN, per, Inzhenerno-Fiz Zhur, Vol III,
No 6, 1960, pp 52-54. 9670248

ATIC MEL-863/1

Sci - Phys

Jul 61

160, 800

NASA TT F-66

National Aeronautics and Space Administration.
EXPERIMENTAL DETERMINATION OF POTASSIUM
VAPOR PRESSURE IN THE 550° TO 1,280° C TEM-
PERATURE RANGE. N. S. Grachev and P. L.
Kirilov. July 1961. 7p. OTS price, \$0.50.
(NASA TECHNICAL TRANSLATION F-66. Transla-
tion from Inzhenerno-Fizicheskii Zhurnal, v. 3, no. 6,
June 1960, p. 62-65 (SSR).)

An attempt was made to verify published data from
experiments by Makansi, et al., and to broaden the
previously investigated temperature interval. The
potassium melting point was found to agree with other
published data, but experiments yielded lower values
for sodium and potassium vapor pressure than did
those of Makansi, et al.

Copies obtainable from NASA, Washington

- I. Grachev, N. S.
- II. Kirilov, P. L.
- III. NASA TT F-66
- IV. Inzhenerno-Fizicheskii
Zhurnal, v. 3, no. 6,
June 1960, p. 62-65
(SSR)

(Initial NASA distribution:
15, Chemistry, physical;
26, Materials, other;
35, Power sources, supple-
mentary.)

NASA

Application of the Theory of Thermodynamic
Similarity to Determine the Physical Properties
of Hot Metal (Molten Metals), by G. F. Butenko,
M. I. Radchenko, 8 pp.

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Vol. LIII, No 6, 1960, pp 66-71. 9670238

ATIC MCL-864/1

Sci - Phys

Jul 61

160,799

Equation of State for Deuterium, by V. A. Rabinovich,
8 pp.
RUSSIAN, per, Inzhener Fiz Zhur, Vol III, No 6, 1960,
pp 107-111. 9222296
AEC-Tr-6368

Sci-Phys
Jun 64

259,763

CEA-tr-R-1429 Uncl.

EQUATION D'ETAT POUR LE DEUTERIUM. (Equation of State for Deuterium). V. A. Rabinovich (Rabinovitsh). Translated into French from Inzhener.-Fiz. Zhur., Akad. Nauk Belorus. S.S. R., 3: No. 5, 107-11 (June 1960). 11p.

Chemistry; Translations MC-4

C-4 NP NSA Dep.(mc); \$1.60(fs), \$0.80(mf)
JCL or OTS

N-4

Problem of Heat and Moisture Transfer for a
Semi-limited Medium of Three Measurements for
Boundary Conditions of the Second Magnitude,
by P. V. Tsouy, 10 pp.

RUSSIAN, per, Inzhenerno-Fizicheskiy Zhur,
Vol III, No 6, 1960, pp 112-119. 9670164

ATIC MCL-865-1

Sci - Phys

Jul 61

159, 221

The Choice of Limiting Temperatures in Combinations
of Convective Heat Transfer and Friction in Dynamic
Gas Conditions, by B. I. Kostarin, Y. A. Lashinov,
5 pp.

RESEARCH, 1964, Tech. Sci. Ser., Vol. 200, No. 7, 1964,
pp 3-9. JPRS 9207221

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Sol. - May 1

May 68

535, 231

Specific Heat Cv in the Coexistence Region
of Water, by V. V. Sychev.
RUSSIAN, per, Inzhenerno-Fizicheskiy Zhurnal,
Vol 3, No 7, 1960, pp 10-16.
NASA TT F-11,283

Sci-Phys
Jan 68

348,696

Calculation of Certain Conical Flows Without
Axial Symmetry, by P. I. Chushkin,
V. V. Shchennikov, 26 pp

RUSSIAN, per, Inzh-fiz Zhur, Vol III, No 7,
1960, pp 88-94.

GW 76-76

RAE 926

OTS, SLA, etc 77-63-23476

ATI-63-24576(h)

167,868

Sci - Phys

Sep 61

Longitudinal Flow Around a Heated Cylinder of a
Highly Viscous ~~MM~~ Liquid, by A.Sh. Asaturyan,
B. A. Tonkoshkurov, 8 pp.

RUSSIAN, par, Inzhenerno-Fiz Zhur, Vol III, No 7,
1960, pp 106-111. 9679266

FTD-TT-62-1333

Sci-Engr
Dec 62

219,371

Study of the Operation of Photoelectric Cells at
High Luminous Fluxes, by V. A. Baum, R. P.
Borovikova, A. S. Okhotin, 10 pp. UNCL

RUSSIAN, per, Inzherno-Fizicheskiy Zhur, No 3,
1968, 6 pp.

CIA/FDD A-4799

Sci - Phys

Jan 68

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Wall Heating by a Supersonic Gas Flow, by
A. A. Pomerantsev.

RUSSIAN, per, Inzhenerno-Fiz Zhur, Vol III,
No 8, 1960, pp 39-46.

JHU/APL

Available EM at ERDL, Ft Belvoir

T-1377

Sci - Phys
Aug 61

163,579

The Effect of Mixing of a Material in a
Fluidized Bed Upon Heat Transfer Between
a Gas And Particles, by A. P. Baskakov,
13 pp.

RUSSIAN, per, Inzhenerno-Fiz Zhur, Vol III,
No 9, 1960, pp 10-16. 9668321

FTD-MCL-1289

Sci-Phys
Apr 63

229,412

The Structure of a Shock Wave in Air, Taking
Into Account the Kinetics of Chemical Reactions,
by N. M. Kurnetsov, 12 pp.

RUSSIAN, per, Inzhenerno-Fiz Zhur, Vol III,
No 9, 1960, pp 17-24. 9670977

FTD NCL-1118/1 4 2

Revised 10/4/61 FAL-2721-PP

169,297 9076210

Sci - Phys

Sep 61

The Influence of Initial Conditions on the
Origin of the Boiling Crisis With Non-Uniform
Heating of the Perimeter of a Pipe, by I. L.
Mostinskiy, 8 pp.

RUSSIAN, per, Inzhenerno-Fiz Zhur, Vol III,
No 10, 1960, pp 5-10. 967C995

FTD MCL-1119/1 + 2

Sci - Phys

169,303

Sep 61

(DC-4908)

Problems of Nuclear Physics (Second All-Union
Conference on Nuclear Reactions at Small and
Medium Energies), by V. S. Yermakov, T. L.
Perel'man, 6 pp.

RUSSIAN, per, Inzhenero-Fiz Zhur, Vol III, No 10,
1960, pp 139-143.

JPRS 6624

Sci - Nu Phys

Feb 61.

138,905

Predvoditelev, A. S.
THE RATES OF CHEMICAL REACTIONS IN TURBULENT STREAMS (BASIC FORMULATION OF THE THEORY) (O Skorostyakh Khimicheskikh Reaktsii v Turbulentnykh Potokakh) (Osnovnyye Polozheniya Teorii)
Apr 61 [14]p. 2 refs. RTS 1817.
Order from OTS or SLA \$1.60

61-19801

Trans. of ~~Inzhenerno-Fizicheskiy Zhurnal~~ (USSR) 1960
[v. 3] no. 11, p. 3-10.

DESCRIPTORS: *Turbulent flow, *Chemical reactions, Velocity, Reaction kinetics, Statistical analysis, Theory, Gas flow, Gases, Combustion.

The methods of mathematical statistics are used to derive a kinetic equation applicable to homogeneous chemical reactions taking place in turbulent streams. The correlation coefficient for the rates of chemical reactions of this type is shown to be equal to that of the turbulent stream. (Author)
(Chemistry--Physical, TT, v. 6, no. 3)

61-19801

- I. Predvoditelev, A. S.
- II. RTS-1817
- III. Department of Scientific and Industrial Research (Bl. Brit.)

175255

Office of Technical Services

Investigation of Convective Heat
Transfer in a Tube With a Twisting Flow of
Constant Pitch Length, by V. K. Yermolin,
10 pp.

RUSSIAN, per, Inzhenerno-Fiz Zhur, Vol III,
No 11, 1960, pp 52-57. 9671626

FED MOL-1290/1

Sci - Phys

174, 747

28 Nov 61

Note on Problem of Heat Exchange in a Pipe at
High Rates of Air Motion, by G. V. Tsiklauri,
V. V. Ushakov, 6 pp.

RUSSIAN, per, Inzhenering-Fizich Zhur, Vol III,
No 11, 1960, pp 48-51. 9670181

FTD
MCL-868/1

Sci - Envs

Jul 61

161,338

The Intensification of the Convective Heat
Exchange in a Tube with a Twisting Flow ~~XXX~~
with Constant Pitch, by V. K. Yermolin, ~~1961~~

RUSSIAN, per, Inzhenerno-Fiz Zhur, Vol III, No 11,
1960, pp 52-57. ~~9610026~~

~~XXX~~ *ATIC MCL-1290/ ~~1~~

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Sci - Phys
11 Jul 61

Wire 10-7-134.

5

An Investigation of the Viscosity of Certain
Liquids in a Wide Temperature Field, by
N. I. Kopylov.

RUSSIAN, per, Inzhenerno-Fizicheskiy Zhurn,
Vol III, No II, 1960, pp 97-101. 9070169

ATTC MJL-870/1

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15-9, 671

106821

Sci-Phys
Jul 63.

The Calculation of the Fundamental Region of An
Aerodynamic Turbulent Wake in Closed Flow,
by B. G. Kandenko, 11 pp.

RUSSIAN, per, Inzhenerno Fiz Zhur, Vol III,
No 12, 1960, pp 3-10. 9573542

FTD-FF-61-135

Sci - Aero

2 Mar 62

186,248

THE SEDIMENTATION OF AEROSOL PARTICLES ON
CYLINDERS, BY V. F. IGNAT'YEV.

RUSSIAN, PER, INZHENERO FIZ ZHUR, VOL 111,
NO 12, 1960, PP 17-23.

NLL M.4629

SCI - CHEM

JUL 62

203,005

61-28290

Beresnev, B. I., Vereshchagin, L. F., and
Ryabinin, Yu. N.
CONDITIONS OF FLOW AND CHANGE OF ME-
CHANICAL PROPERTIES OF METALS DURING EX-
TRUSION BY LIQUID UNDER HIGH PRESSURE.
6 Mar 61, 3p. AID rept. 61-27, AD-254 396.
Order from OTS or SLA \$1.10 61-28290

Abstract trans. of Izdatmerop-Fizicheskii Zhurnal
(USSR) 1960, v. 3, no. 12, p. 43-48.

DESCRIPTORS: *Metals, *Metallurgy, Alloys, *Ex-
trusion, High pressure research, Liquids, Water.
Mechanical properties, USSR, Hydroforming, Hydro-
static pressure.

An experimental method of metal extrusion by high-
pressure liquids is reported. In the preliminary ex-
periments ten liquids were tested as pressure-trans-
(Metallurgy, TT, v. 6, no. 12) (over)

I. Beresnev, B. I.
II. Vereshchagin, L. F.
III. Ryabinin, Yu. N.
IV. AID-61-27
V. Air Information Div.,
Washington, D. C.
VI. AD-254 396

Office of Technical Services

Flame Propagation Over a Liquid Surface,
by P. G. Ipatov, 7 pp.

RUSSIAN, per, Inzhenerno Fiz Zhurn, Vol. VII,
No. 12, 1960, pp 49-52. 9573543

FED-TT-61-128

Sci - Phys

2 MAR 62

186, 247

(NY-6580

AN ANALYTICAL & METHOD OF CALCULATING
THE STATIC VOLT-AMPERE CHARACTERISTIC OF
A THERMISTOR DURING CHANGE IN THE TEMPERATURE OF
THE EXTERNAL MEDIUM, BY I. F. VOLOSHIN,
5 PP

RUSSIAN, PER, INZHENERNO-FIZ ZHUR, VOL III,
NO 12, 1960, PP 111-113.

JPRS 12220

SCI - ENGR, PHYS
FEB 62

101,032

(NY-5974)

Experimental Investigation of the Density of
Liquid Oxygen at - 190 to - 120°C and Pressures
to 200 kg/cm², Including the Saturation Curve,
by D. L. Timrot, V. P. Borisoglebskiy, 20 pp.

RUSSIAN, per, Inzh-Fiz Zhur, Vol IV, No 1, 1961,
pp 3-13.

JPRS 9062

159,990

Sci - Phys

May 61

Effect of Enthalpy Recovery on the Surface
of a Cylinder Past Which Flows a High-Velocity,
Gas Stream, by Ye. V. Shishov, 10 pp.

RUSSIAN, per, Inzhenerno Fiz Zhur, Vol IV,
No 1, 1961, pp 37-43. 9675791.

FED-TT-61-158

Sci " Phys

19 Mar 62

188,304

A Study of the Effect of Ultrasonic Waves
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61-31682, APL/JHU TG-T246, 30 Aug 61, 9p.; and from
OTS or SLA \$2.60 in 62-19284, FTD-TT-61-321,
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DESCRIPTOR: *Gas flow, *Boundary layer, *Combustion,
*Compressible flow, Heat exchange, Surface
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ties, *Colloids, Microstructure.

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DESCRIPTORS: Thermodynamics, *Heat transfer,
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1961, v. 4, no. 8, p. 3ff.

DESCRIPTORS: Thermodynamics, *Thermal diffusion,
*Thermal conductivity, *Hydrodynamics, Liquids,
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DESCRIPTORS: *Pneumatic systems, *Conveyors, Resistance, *Phase studies, Fluid flow, Gas flow, Particles, *Chemical engineering.

(Machinery--Transport, TT, v. 8, no. 10)

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